Amazon S3 **– simple storage service** is an object based data storage service designed to store and retrieve any amount of data from anywhere in the internet. It is extremely durable, highly available and infinitely scalable at low cost.

Unlimited volume of data and object can be stored in S3. Each individual object can range from a minimum of 0 bytes to a maximum of 5 terabytes. In a single put, a maximum of 5 gigabytes can be written. For objects > 100 MB, multipart file upload should be considered.

S3 storage classes can be configured at object level and each bucket can contain objects stored across

S3 standard, S3 Intelligent tiering, S3 Standard IA and S3 One zone IA. L3 lifecycle policies can be used to transition objects automatically across storage classes.

S3 Intelligent: For a fee per object, infrequently accessed objects are moved to low cost tiers and vice versa. Ideal for data with unknown access patterns.

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| **Type** | **Durability** | **Availa**  **bility** | **SSL for**  **data**  **in**  **transit** | **Encryp**  **tion**  **of data**  **at**  **rest** | **S3 life**  **cycle**  **manage**  **ment** | **Audience** | **Resilient**  **across**  **availability**  **zones** | **Pricing** |
| S3 Standard | 99.9999  99999%  (11 9s) | 99.99% | Y | Y | Y | General  Purpose | Y(Min = 3) | First 50 TB/ Month : 0.023/GB,  Next 450 TB : 0.022/GB,  Over 500 TB :  0.021 /GB |
| S3 Intelligent  Tiering | 99.9999  99999%  (11 9s) | 99.99% | Y | Y | Y | Unknown or changing access patterns | Y(Min = 3) | Frequent :  First 50 TB/ Month : 0.023/GB,  Next 450 TB : 0.022/GB,  Over 500 TB :  0.021 /GB  In Frequent :  0.0125 per GB  Monitoring :  0.0025 per 1000 objects |
| Standard  IA | 99.9999  99999%  (11 9s) | 99.9% | Y | Y | Y | Data accessed less frequently but rapidly accessible. | Y(Min = 3) | All /Month :  0.0125 per GB |
| One  Zone IA | 99.9999  99999%  (11 9s) | 99.5% | Y | Y | Y | Easily recreatable/ recoverable data which is otherwise same as standard IA | N(Max = 1) | All /Month :  0.01 per GB |
| Glacier | 99.9999  99999%  (11 9s) | Can be  restored  within few minutes to hours  (configu  rable) | Y | Y | Y | Archive | Y(Min = 3) | All /Month :  0.004 per GB |
| Glacier  Deep  Archive | 99.9999  99999%  (11 9s) | Can be restored within 12 hours | Y | Y | Y | Long term Archive(7-10 years or longer) | Y(Min = 3) | Coming soon |